

SEQUENCE LISTING

<110> Chano, Tokuhiro
Okabe, Hidetoshi
Ikegawa, Shiro

<120> RB1 gene induced protein (RB1CC1) and gene

<130> 3190-070

<140> US 10/516,558

<141> 2004-11-30

<150> PCT/JP03/00882

<151> 2003-01-30

<150> JP P2002-161400

<151> 2002-06-03

<150> JP P2002-214978

<151> 2002-07-24

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<170> PatentIn version 3.1

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Gly Gly Glu Cys Met Ala Ala Asp Arg Arg Val Cys Thr Tyr Ser Ala
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Gly Thr Asp Thr Asn Pro Ile Phe Leu Phe Asn Lys Glu Met Ile Leu
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Cys	Asp	Arg	Pro	Pro	Ala	Ile	Pro	Lys	Thr	Thr	Phe	Ser	Thr	Glu	Asn	
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Asp	Met	Glu	Ile	Lys	Val	Glu	Glu	Ser	Leu	Met	Met	Pro	Ala	Val	Phe	
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His	Thr	Val	Ala	Ser	Arg	Thr	Gln	Leu	Ala	Leu	Glu	Met	Tyr	Glu	Val	
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Ala	Lys	Lys	Leu	Cys	Ser	Phe	Cys	Glu	Gly	Leu	Val	His	Asp	Glu	His	
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Ser	Asn	Ser	Tyr	Gln	Lys	Leu	Leu	Phe	Lys	Phe	Glu	Ser	Ile	Tyr	Ser	
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Asn	Tyr	Leu	Gln	Ser	Ile	Glu	Asp	Ile	Lys	Leu	Lys	Leu	Thr	His	Leu	
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Gly	Thr	Ala	Val	Ser	Val	Met	Ala	Lys	Ile	Pro	Leu	Leu	Glu	Cys	Leu	
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Thr	Arg	His	Ser	Tyr	Arg	Glu	Cys	Leu	Gly	Arg	Leu	Asp	Ser	Leu	Pro	
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Glu	His	Glu	Asp	Ser	Glu	Lys	Ala	Glu	Thr	Lys	Arg	Ser	Thr	Glu	Leu	
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Val	Leu	Ser	Pro	Asp	Met	Pro	Arg	Thr	Thr	Asn	Glu	Ser	Leu	Leu	Thr	
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Ser	Phe	Pro	Lys	Ser	Val	Glu	His	Val	Ser	Pro	Asp	Thr	Ala	Asp	Ala	
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Glu	Ser	Gly	Lys	Glu	Ile	Arg	Glu	Ser	Cys	Gln	Ser	Thr	Val	His	Gln	
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Gln	Asp	Glu	Thr	Thr	Ile	Asp	Thr	Lys	Asp	Gly	Asp	Leu	Pro	Phe	Phe	
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Asp Met Glu Ile Lys Val Glu Glu Ser Leu Met Met Pro Ala Val Phe
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His Thr Val Ala Ser Arg Thr Gln Leu Ala Leu Glu Met Tyr Glu Val
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Leu Gln His Gln Gly Trp Ala Ala Ile Met Ala Asn Leu Glu Asp Cys
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Ser Asn Ser Tyr Gln Lys Leu Leu Phe Lys Phe Glu Ser Ile Tyr Ser
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Asn Tyr Leu Gln Ser Ile Glu Asp Ile Lys Leu Lys Leu Thr His Leu
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Gly Thr Ala Val Ser Val Met Ala Lys Ile Pro Leu Leu Glu Cys Leu
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Val Leu Ser Pro Asp Met Pro Arg Thr Thr Asn Glu Ser Leu Leu Thr
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Glu Ser Gly Lys Glu Ile Arg Glu Ser Cys Gln Ser Thr Val His Gln
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Gln Asp Glu Thr Thr Ile Asp Thr Lys Asp Gly Asp Leu Pro Phe Phe
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Asn Val Ser Leu Leu Asp Trp Ile Asn Val Gln Asp Arg Pro Asn Asp
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Val Glu Ser Leu Val Arg Lys Cys Phe Asp Ser Met Ser Arg Leu Asp
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Leu Tyr Ala Leu Asp Gln Met Ile Ala Ser Cys Gly Arg Leu Val Asn
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Glu Gln Lys Glu Leu Ala Gln Gly Phe Leu Ala Asn Gln Lys Arg Ala
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Ala Asn Gln Leu Met Ile Met Leu Gln Asn His Arg Lys Leu Leu Asp
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Ile Lys Gln Lys Cys Thr Thr Ala Lys Gln Glu Leu Ala Asn Asn Leu
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His Val Arg Leu Lys Trp Cys Cys Phe Val Met Leu His Ala Asp Gln
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Glu Arg Val Lys Ile Val Glu Ala Leu Ser Thr Val Pro Gln Met Tyr
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Cys Leu Ala Val Val Glu Val Val Arg Arg Lys Met Phe Ile Lys His
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Tyr Arg Glu Trp Ala Gly Ala Leu Val Lys Asp Gly Lys Arg Leu Tyr
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 565 570 575

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 580 585 590

Val Gln Pro Phe Leu Arg Val Pro Leu Leu Cys Asp Phe Glu Pro Leu
 595 600 605

His Gln His Val Leu Ala Leu His Asn Leu Val Lys Ala Ala Gln Ser
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Leu Asp Glu Met Ser Gln Thr Ile Thr Asp Leu Leu Ser Glu Gln Lys
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Ala Ser Val Ser Gln Thr Ser Pro Gln Ser Ala Ser Ser Pro Arg Met
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Glu Ser Thr Ala Gly Ile Thr Thr Thr Thr Ser Pro Arg Thr Pro Pro
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Pro Leu Thr Val Gln Asp Pro Leu Cys Pro Ala Val Cys Pro Leu Glu
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Glu Leu Ser Pro Asp Ser Ile Asp Ala His Thr Phe Asp Phe Glu Thr
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Asn Glu Phe Val Ile Glu Glu Asn Leu Ser Ser Pro Asn Pro Ile Ser
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Asp Pro Gln Ser Pro Glu Met Met Val Glu Ser Leu Tyr Ser Ser Val
755 760 765

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770 775 780

Lys Glu Asp Phe Gly Asp His Thr Ser Leu Asn Val Gln Leu Glu Arg
785 790 795 800

Cys Arg Val Val Ala Gln Asp Ser His Phe Ser Ile Gln Thr Ile Lys
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Glu Asp Leu Cys His Phe Arg Thr Phe Val Gln Lys Glu Gln Cys Asp
820 825 830

Phe Ser Asn Ser Leu Lys Cys Thr Ala Val Glu Ile Arg Asn Ile Ile
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Glu Lys Val Lys Cys Ser Leu Glu Ile Thr Leu Lys Glu Lys His Gln
850 855 860

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915 920 925

Glu Lys Asp Gln Lys Leu Leu Glu Met Glu Asn Ile Met His Ser Gln
930 935 940

Asn Cys Glu Ile Lys Glu Leu Lys Gln Ser Arg Glu Ile Val Leu Glu
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Asp Leu Lys Lys Leu His Val Glu Asn Asp Glu Lys Leu Gln Leu Leu
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980 985 990

Asp Thr Leu Gln Val Arg His Ile Gln Glu Phe Glu Lys Val Met Thr
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Ile Ile Asn Gln Ile Gln Glu Ser His Ala Glu Ile Ile Gln Glu
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Lys Glu Lys Gln Leu Gln Glu Leu Lys Leu Lys Val Ser Asp Leu
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Glu Gln Ile Ile Glu Leu Gln Ser Lys Leu Asp Ser Glu Leu Ser
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Ile Met Leu Leu Glu Arg Thr Leu Gln Leu Lys Glu Glu Glu Asn
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Ser Ser Arg His Ser Glu Lys Ile Ala Ile Arg Asp Phe Gln Val
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Val Leu Phe Thr Val Ser Pro Thr Leu Tyr Phe Leu His Ser Glu
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Ser Leu Pro Ala Leu Asp Leu Lys Pro Gly Glu Gly Ala Ser Gly
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Ala Ser Arg Arg Pro Trp Val Leu Gly Lys Val Met Glu Lys Glu
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Gly Gly Glu Cys Met Ala Ala Asp Arg Arg Val Cys Thr Tyr Ser Ala
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Gly Thr Asp Thr Asn Pro Ile Phe Leu Phe Asn Lys Glu Met Ile Leu
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Cys Asp Arg Ala Pro Ala Ile Pro Lys Ala Thr Phe Ser Thr Glu Asn
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Asp Met Glu Ile Lys Val Glu Glu Ser Leu Met Met Pro Ala Val Phe
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His Thr Val Ala Ser Arg Thr Gln Leu Ala Val Glu Met Tyr Asp Val
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Ala Lys Lys Leu Cys Ser Phe Cys Glu Gly Leu Val His Asp Glu His
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Gly Thr Ala Val Ser Val Met Ala Lys Ile Pro Leu Leu Glu Cys Leu
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Val Leu Ser Pro Asp Met Pro Arg Thr Thr Asn Thr Ser Leu Val Thr
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Ser Phe His Lys Ser Met Glu His Val Ala Pro Asp Pro Thr Gly Thr
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Glu Arg Gly Lys Glu Leu Arg Glu Ser Cys Gln Ser Thr Val Gln Gln
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Val Ser Leu Leu Asp Trp Ile Asn Val Gln Asp Arg Pro Asn Asp Val
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Glu Ser Leu Val Arg Lys Cys Phe Asp Ser Met Ser Arg Leu Asp Pro
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Lys Ile Ile Gln Pro Phe Met Leu Glu Cys His Gln Thr Ile Ala Lys
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Leu Asp Asn Gln Asn Met Lys Ala Ile Lys Gly Leu Glu Asp Arg Leu
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Tyr Ala Leu Asp Gln Met Ile Ala Ser Cys Ser Arg Leu Val Asn Glu
 370 375 380

Gln Lys Glu Leu Ala Gln Gly Phe Leu Ala Asn Gln Met Arg Ala Glu
 385 390 395 400

Asn Leu Lys Asp Ala Ser Val Leu Pro Asp Leu Cys Leu Ser His Ala
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Asn Gln Leu Met Ile Met Leu Gln Asn His Arg Lys Leu Leu Asp Ile
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Lys Gln Lys Cys Thr Thr Ala Lys Gln Glu Leu Ala Asn Asn Leu His
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Val Arg Leu Lys Trp Cys Cys Phe Val Met Leu His Ala Asp Gln Asp
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 485 490 495

Leu Ala Val Val Glu Val Val Arg Arg Lys Met Phe Ile Lys His Tyr
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Arg Glu Trp Ala Gly Ala Leu Val Lys Asp Gly Lys Gln Leu Tyr Glu
 515 520 525

Ala Glu Lys Ser Lys Arg Glu Ser Phe Gly Lys Leu Phe Arg Lys Ser
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Phe Leu Arg Asn Arg Leu Phe Lys Gly Leu Asp Ser Trp Pro Ser Ser
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Phe Cys Thr Gln Lys Pro Arg Lys Phe Asp Cys Glu Leu Pro Asp Ile
 565 570 575

Ser Leu Lys Asp Leu Gln Phe Leu Gln Ser Phe Cys Pro Ser Glu Val
 580 585 590

Gln Pro Phe Leu Arg Val Pro Leu Leu Cys Asp Phe Glu Pro Leu His
 595 600 605

Gln His Val Leu Ala Leu His Asn Leu Val Lys Ala Ala Gln Ser Leu
 610 615 620

Asp Glu Met Ser Gln Thr Ile Thr Asp Leu Leu Asn Glu Gln Lys Val
 625 630 635 640

Ser Thr Ser Gln Ala Ser Pro Gln Ser Ala Ala Ser Pro Arg Ile Glu
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Ser Thr Thr Gly Ile Thr Thr Thr Thr Ser Pro Lys Thr Pro Pro Pro
660 665 670

Leu Thr Val Gln Asp Thr Leu Cys Pro Ala Val Cys Pro Leu Glu Glu
675 680 685

Leu Ser Pro Asp Ser Ile Asp Ala His Thr Phe Asp Phe Glu Thr Ile
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Asp Ser Leu Ala Glu Ser Pro Glu Ser Asp Phe Met Ser Ala Val Asn
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Glu Phe Val Ile Glu Glu Asn Leu Ser Ser Pro Asn Pro Ile Ser Asp
740 745 750

Pro Gln Ser Pro Glu Met Met Val Glu Ser Leu Tyr Ser Ser Val Ile
755 760 765

Asn Ala Ile Asp Ser Arg Arg Met Gln Asp Thr Ser Thr Arg Gly Asn
770 775 780

Glu Gly Phe Gly Asp Arg Ala Ala Leu His Val Gln Leu Glu Lys Cys
785 790 795 800

Arg Ala Ala Ala Gln Asp Ser His Thr Ser Ile Gln Thr Ile Lys Asp
805 810 815

Asp Leu Cys His Phe Arg Thr Phe Val Gln Lys Glu Gln Cys Asp Leu
820 825 830

Ala Asn Tyr Leu Lys Cys Thr Ala Val Glu Ile Arg Asn Ile Ile Glu
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Lys Val Lys Cys Ser Leu Glu Ile Thr Leu Lys Glu Lys His Gln Gln
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Glu Leu Gln Ser Leu Lys Ile Glu Tyr Glu Cys Lys Leu Asp Ala Leu
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Val Lys Asp Ser Glu Glu Asn Val Asn Lys Ile Leu Lys Leu Lys Glu
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Asn Leu Val Ser Leu Glu Glu Ala Leu Gln Asn Lys Asp Asn Glu Phe
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Thr Ser Ile Lys His Glu Lys Asp Ala Ile Val Cys Val Gln Gln Glu
915 920 925

Lys Asp Gln Lys Leu Leu Glu Met Glu Lys Ile Met His Thr Gln His
930 935 940

Cys Glu Ile Lys Glu Leu Lys Gln Ser Arg Glu Met Ala Leu Glu Asp
945 950 955 960

Leu Lys Lys Leu His Asp Glu Lys Ile Glu Ser Leu Arg Ala Glu Phe
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Gln Cys Leu Glu Glu Asn His Leu Lys Glu Leu Glu Asp Thr Leu His
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Ile Arg His Thr Gln Glu Phe Glu Lys Val Met Thr Asp His Asn Met
995 1000 1005

Ser Leu Glu Lys Leu Lys Lys Glu Asn Gln Gln Arg Ile Asp Gln
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Leu Gln Glu Leu Lys Leu Lys Val Ser Asp Leu Ser Asp Met Arg
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Cys Lys Leu Glu Val Glu Leu Ala Leu Lys Glu Ala Glu Thr Asp
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Pro Thr Leu Tyr Phe Leu His Ser Glu Ser Leu Pro Ala Leu Asp
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Leu Lys Pro Gly Glu Gly Ala Ser Gly Ala Ser Arg Arg Pro Trp
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Val Leu Gly Lys Val Met Glu Lys Glu Tyr Cys Gln Ala Lys Lys
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